## EXHIBIT E

	Page 1					
1	IN THE UNITED STATES DISTRICT COURT					
2	FOR THE EASTERN DISTRICT OF TEXAS					
3	MARSHALL DIVISION					
4	ENTROPIC COMMUNICATIONS,					
5	LLC,					
6	Plaintiff, Case No.					
7	vs. 2:22-cv-00125-JRG					
8	CHARTER COMMUNICATIONS,					
9	INC.,					
10	Defendant.					
11	~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~					
12						
13						
14	REMOTE VIDEO DEPOSITION OF					
15	RICHARD A. KRAMER					
16						
17						
18	August 24, 2023					
19	10:08 a.m. Central					
20						
21						
22						
23	Stenographically Reported By:					
24	Deanna Amore - CRR, RPR, CSR - 084-003999					
25						

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1	APPEARANCES OF COUNSEL	1	EXHIBITS
2	(All Participants Appeared Remotely.)	2	NUMBER DESCRIPTION PAGE
2	On Behalf of the Plaintiff, ENTROPIC	3	Exhibit 9 Li - U.S. Patent 9
3	COMMUNICATIONS, LLC:	4	Application 2007/0098089;
4	K&L GATES LLP CONNOR MEGGS	5	CHARTER_ENTROPIC00035923-
5	70 West Madison Street	6	
	Suite 3300	7	Exhibit 10 Dauphinee U.S. Patent 9
6	Chicago, Illinois 60602 connor.meggs@klgates.com	8	7.522.901;
7	comor.meggs@Argates.com	9	
	On Behalf of the Defendant, CHARTER COMMUNICATIONS,	l	CHARTER_ENTROPIC00380676-
8 9	INC.: ARNOLD & PORTER	10	
^	MARC COHN	11	Exhibit 11 8.11.2023 Expert Rebuttal 9
10	601 Massachusetts Avenue NW	12	Report of Richard A.
11	Washington, D.C. 20001 marc.cohn@arnoldporter.com	13	Kramer
12	materior and appropriation	14	Exhibit 12 Errata to Expert Report 10
12	ALSO PRESENT:	15	of Dr. Richard A. Kramer
13	Tim Tupiak, Legal Videographer Matthew Laurence, Concierge-Technician	16	
14		17	Language
15		18	Exhibit 14 7.12.2023 Deposition 83
16 17		19	Transcript of Curtis
18		20	Ling, Ph.D.
19 20		21	Exhibit 15 October 1989 Networking 103
21		22	Working Group Internet
22		23	Engineering Task Force;
23 24		24	ENTROPIC_CHARTER0018562-
25		25	677
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2	INDEX WITNESS EXAMINATION	1 2	-
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	Page 86		Page 88
1	in that Q & A that I just read; right?	1	Dr. Goldberg's analysis of the invalidity of
2	A. To the extent that Dr. Ling wasn't asked	2	claim 11 in view of Zhang; right?
3	to consider the Court's claim construction and	3	A. It appears so, yes.
4	consider the claims, he was just simply giving his	4	Q. And in your response you see the
5	opinion related to figures.	5	subheading (a) refers to claim element 11a3. And
6	Q. You don't disagree with what he said	6	then you quote the element?
7	right? based on your analysis that the tuners 1	7	A. Yes.
8	and 2 in Figure 6 perform similar functions to the	8	Q. And that element corresponds to
9	radio front end of the previous figures?	9	element 11d in Kramer Exhibit 13 that you brought
10	A. I mean, it speaks for itself what it says. 14:15:07	10	this morning; is that right? 14:19:00
11	I really don't have an opinion.	11	A. I think that's correct, yes.
12	Q. You don't disagree with that answer of	12	Q. And after this section on element 11d,
13	Dr. Ling; right?	13	your report then turns to the validity of claim 12;
14	MR. MEGGS: Objection. Form.	14	correct?
15	THE WITNESS: I didn't say that.	15	A. So after this section, paragraphs 120
16	BY MR. COHN:	16	including Subsections 121 through paragraphs 120
17	Q. Do you disagree with Dr. Ling when he said	17	forgive me paragraph 121 through paragraph 128,
18	that	18	then starting with paragraph 129 is a12.
19	(Simultaneous speaking.)	19	Q. And in your in paragraphs 120 to 128 of
20	THE WITNESS: I don't have an opinion. I mean, 14:15:45	20	your report, the only claim element that you 14:20:05
21	it speaks for itself. He's entitled to have his	21	discuss is what's labeled as element 11d on the
22	own opinion and describe what he feels is his	22	chart you brought with you this morning; is that
23	opinion.	23	right?
24	BY MR. COHN:	24	A. So the heading over paragraph 121 appears
25	Q. In the course of your analysis, did you	25	to correspond to what I have marked on my note
.	Page 87		Page 89
1	come to an opinion that the tuners 1 and 2 of		sheet here as 11d, correct.
2	Figure 6 perform different functions than the radio	2	Q. And you don't discuss any of the other
3	front end of the previous figures?	3	elements of claim 11 besides 11d in paragraphs
4 5	MR. MEGGS: Objection. Form. BY MR. COHN:	5	120 to 128; correct?  A. I'm going by the headings. (a) is what is
6	Q. Do you recall whether you gave that	6	
7	Q. Do you recan whether you gave that		marked as 11a2 and then it goes into alaim 12
'	oninion or not?		marked as 11a3, and then it goes into claim 12.
8	opinion or not?	7	That appears to be correct.
8	A. In my analysis I was rebutting	<b>7</b> 8	That appears to be correct.  Q. Let's go back to Figure 2, please.
9	A. In my analysis I was rebutting Dr. Goldberg and Dr. Almeroth's reports.	7 8 9	That appears to be correct.  Q. Let's go back to Figure 2, please.  A. Of the '362 patent?
9 10	A. In my analysis I was rebutting Dr. Goldberg and Dr. Almeroth's reports. I disagree with their opinions. I was focused on 14:16:3	7 8 9 410	That appears to be correct.  Q. Let's go back to Figure 2, please.  A. Of the '362 patent?  Q. Yes. Of the '362 patent. 14:23:17
9 10 11	A. In my analysis I was rebutting Dr. Goldberg and Dr. Almeroth's reports. I disagree with their opinions. I was focused on the claims, the evidence they provided. I didn't	7 8 9 410 11	That appears to be correct.  Q. Let's go back to Figure 2, please.  A. Of the '362 patent?  Q. Yes. Of the '362 patent.  A. Okay. I'm there.
9 10 11 12	A. In my analysis I was rebutting Dr. Goldberg and Dr. Almeroth's reports. I disagree with their opinions. I was focused on the claims, the evidence they provided. I didn't go through people's transcripts line by line	7 8 9 410 11 12	That appears to be correct.  Q. Let's go back to Figure 2, please.  A. Of the '362 patent?  Q. Yes. Of the '362 patent. 14:23:17  A. Okay. I'm there.  Q. Do you see, at the right side of Figure 2,
9 10 11 12 13	A. In my analysis I was rebutting Dr. Goldberg and Dr. Almeroth's reports. I disagree with their opinions. I was focused on the claims, the evidence they provided. I didn't go through people's transcripts line by line forming opinions. I don't have one.	7 8 9 410 11	That appears to be correct.  Q. Let's go back to Figure 2, please.  A. Of the '362 patent?  Q. Yes. Of the '362 patent. 14:23:17  A. Okay. I'm there.  Q. Do you see, at the right side of Figure 2, it says "serial or parallel data interface to
9 10 11 12 13 14	A. In my analysis I was rebutting Dr. Goldberg and Dr. Almeroth's reports. I disagree with their opinions. I was focused on the claims, the evidence they provided. I didn't go through people's transcripts line by line forming opinions. I don't have one.  Q. Now, if we could turn in your expert	7 8 9 410 11 12 13	That appears to be correct.  Q. Let's go back to Figure 2, please.  A. Of the '362 patent?  Q. Yes. Of the '362 patent. 14:23:17  A. Okay. I'm there.  Q. Do you see, at the right side of Figure 2, it says "serial or parallel data interface to demodulator"?
9 10 11 12 13	A. In my analysis I was rebutting Dr. Goldberg and Dr. Almeroth's reports. I disagree with their opinions. I was focused on the claims, the evidence they provided. I didn't go through people's transcripts line by line forming opinions. I don't have one.  Q. Now, if we could turn in your expert report to page 41, please.	7 8 9 410 11 12 13 14	That appears to be correct.  Q. Let's go back to Figure 2, please.  A. Of the '362 patent?  Q. Yes. Of the '362 patent. 14:23:17  A. Okay. I'm there.  Q. Do you see, at the right side of Figure 2, it says "serial or parallel data interface to
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1 subscriber would be again the same. So there 2 wouldn't be any undesired channels, and it's being 3 selected from undesired. 4 BY WR. MIGGS: 5 Q. And then what happens when n is greater 6 than m? 7 MR. COHN: Same objections. 8 THE WITNIESS: So need be any number, and so 9 then it would be some sort of a selection of n is 9 greater than m. 16-42-26 11 MR. MEGGS: No further questions. 12 MR. COHN: Okay, 1 don't have any questions. 13 lobject to the entire redirect as outside of 14 scope of his report and outside of scope of my 15 questioning, but I don't have any questions. 16 MR. MEGGS: Your objection is noted, sir, but 17 lobviously disagree. 18 THE VIDEOGRAPHER: Are we ready to go off the 19 record? 20 MR. COHN: We sure are. 16-42-250 21 THE VIDEOGRAPHER: We are going off the record. 21 The time is 4-42 p.m. This concludes today's 22 testimony by Rich Kramer. The total number of 23 testimony by Rich Kramer. The total number of 24 media unit used was six and will be retrained by 25 Veritext Legal Solutions. Thank you.  Page 143 1 CERTIFICATE 2 In DEANNA AMORE, a Shorthand Reporter and 4 notary public, within and for the State of 11 Illinois, County of DuPage, 6 hereby certify: 4 media unit used was six and will be retrained by 5 veritext Legal Solutions. Thank you.  Page 143 1 CIRTIFICATE 4 PAGE LINE CHANGE 5 Illinois, County of DuPage, 6 hereby certify: 5 That RICHARD A, KRAMER, the wimess whose examination is hereinbefore set forth, was first. 8 duly sworm by me and that this transcript of said 9 testimony is a true record of the testimony given 10 by said winness. 11 I Turther certify that I am not related to 12 may of the parties to this action by blood or 13 marriage, and that I am in no way interested in the 14 outcome of this matter. 15 IN WITNESS WHEREOF, I have hereunto set my hand this 28th day of August 2023.  18 PAGE LINE CHANGE  19 PAGE LINE CHANGE  10 PAGE LINE CHANGE  10 PAGE LINE CHANGE  21 REASON  22 PAGE LINE CHANGE  23 REASON  24 Richard Kramer Date		Page 142		Page 144
A guest 28, 2023  A Pagest 28, 2023  A Entropic Communications v Charter Communications, Inc., Et Al 5, 824/2023, Rehand Kramer (#6/607726)  The MR. COHN: Same objections.  THE WITNESS: So n could be any number, and so 6 mit would be some sort of a selection of n is 9 read the testimony to verify its accuracy. If there are 1 and with the physical set is the state of 1 september 1 and outside of scope of my 1 don't have any questions.  MR. MEGGS: No further questions.  MR. MEGGS: Your objection is noted, sir, but 1 obviously disagree.  THE WITDEOGRAPHER: Are we ready to go off the 1 record?  THE WIDEOGRAPHER: We are going off the record.  THE WIDE	1		1	-
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10 greater than m.   16:42:26   10 any changes, the witness should note those with the   11 rasson, on the attached Errata Sheet.   12 The store, it is cope of this report and outside of scope of my   14 copies should be sent to all counsel, and to Vertiext at   15 cs-n/@ vertiext.com.   16 copies should be sent to all counsel, and to Vertiext at   15 cs-n/@ vertiext.com.   16 copies should be sent to all counsel, and to Vertiext at   15 cs-n/@ vertiext.com.   16 copies should be sent to all counsel, and to Vertiext at   15 cs-n/@ vertiext.com.   16 copies should be sent to all counsel, and to Vertiext at   15 cs-n/@ vertiext.com.   16 copies should be sent to all counsel, and to Vertiext at   17 copies should be sent to all counsel, and to Vertiext at   18 copies should be sent to all counsel	8		8	Within the applicable timeframe, the witness should
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